

# 2008 Report on Status of the Everglades Protection Area Long-Term Plan for Achieving Water Quality Goals

Governing Board Meeting July 9, 2008 *Tracey Piccone, P.E., STA Management Division* 

## What is the Long-Term Plan?

- State's blueprint for achieving 10 parts per billion (ppb) phosphorus in Everglades
- Identified in the 2003 EFA and the Everglades phosphorus rule as Best Available Phosphorus Reduction Technology
- Success is predicated upon adaptive implementation
- Revision process includes public involvement component
  - Long-Term Plan, WRAC and Governing Board meetings
- Only Florida Department of Environmental Protection (FDEP) can approve Long-Term Plan revisions



- Includes Stormwater Treatment Area (STA) enhancements, monitoring, research, source controls, and accelerated recovery projects
- Current cost of Long-Term Plan is over \$1 Billion
- Addresses discharges to the Everglades Protection Area from:
  - Seven Everglades Construction Project (ECP) Basins
  - Six Non-ECP Basins

### GLADES L-8 Basin Okeechobee East Beach Water Control Distric BEACH S-5A 715 Farms S4 Basin West Palm \$236 Beach C-51W Basin STA-1 Inflow and 53 HENDRY S354 ACME Improvement South Shore Drainage Distric District Basin ACME1DS -PUMP STATION 2 \* S-8 / S-3 C-139 S-6 Basin Basin S-7 / S-2 Basin Water Conservation Basin (Arthur R. Marshall STA-5 STA-6 Section 2 Feeder Canal North Springs STA-3/4 Basin STA-6 Improvement District Basin Conservation L-28 Area 24 S190 S144 S145 S146 S146 Basin North New River S140 B R Canal Basin Fort Lauderdale Water Conservation COLLIER 5 25 0 7-11 West Area 3A S151 Basin Structures that discharge INTO the EPA S31 A S337 ▲ S344 Structures that discharge WITHIN the EPA Structures that discharge FROM the EPA Water Conservation Structures UPSTREAM of structures Area 3B discharging INTO the EPA S343A S343B Other SFWMD Structures MONROE Everglades Protection Area (EPA) S347 Non-ECP Basins DADE C-139 Basin S331 /S173 C-51W Basin S332B L-8 Basin S3320 S-5A Basin S176 (UPSTREAM) S332D/S174 (INTO) S-6 Basin Everglades National S-7 / S-2 Basin S-8 / S-3 Basin S18C Compartments A. B. C Stormwater Treatment Areas (STAs) \*Operation of ACME's Pump Station 1 and Pump Station 2 ceased on 12/31/2006 298 Diversion Projects

# Long-Term Plan

- STA-1E
- STA-1W
- STA-2
- STA-3/4
- STA-5
- STA-6
- Acme Basin B
- North Springs Improvement
  District Basin
- North New River Canal Basin
- C-11W Basin
- Feeder Canal Basin
- L-28 Basin

### Stormwater Treatment Areas

# Agricultural Land Constructed Wetland



Phosphorus Reduction

# What is the 2008 Report?

- First 5-year update on status of implementation of the 2003 Long-Term Plan
- Separate from South Florida Environmental Report (SFER)
- Due to Governor and Legislature no later than December 31, 2008
- Simple description:

  "What we've done so far, what worked, what didn't work, and where do we go from here..."

# 2008 Report Summary

- Updated Tributary Basin Data
  - STA Inflows and Outflows
  - Non-ECP Basin discharges
- Evaluation of analytical tools
  - Water quality and hydraulic models
- Summary of performance of projects completed and underway
- Evaluation of Hydropattern Restoration projects
  - Environmental benefits, impacts, permitability, cost, and schedule
  - Potential recommended plan for Hydropattern Restoration projects

# 2008 Report Schedule

- Draft Report due August 11, 2008
- Final Report due September 30, 2008
- WRAC Update in September
- Governing Board update September Workshop
- December Governing Board
  - Resolution directing staff to submit 2008 Report to Governor, Legislature and FDEP